

**Perform the indicated operation(s):**

1.  $|-20|$

2.  $-25 + (-4) + (-2) + (-6)$

3.  $-147 - (-85)$

4.  $4(-1)(10)(-5)$

5.  $\frac{-15}{0}$

6.  $\frac{0}{23}$

7.  $(-72) \div (-9)$

8.  $3 + 12 \div 3 - 10$

9.  $\frac{2 + 4^2 - (-2)}{-8 - 3 + 10}$

10.  $8^2 - 5(4) + 21 \div 3$

11. Evaluate:  $\frac{x^2 - 5}{y}$  for  $x = -3$  and  $y = -2$

18. Find the perimeter of a rectangle with a length of 63 inches and a width of 39 inches.

19. Find the volume of a rectangular box that is 5 feet wide, 7 feet long and 3 feet high.

20. Given an angle of  $72^\circ$ , find its  
(a) complement & (b) supplement.

21. Find the least common multiple of 54 and 18.

22. Change  $\frac{-56}{14}$  to a mixed number or a whole number.

23. Change  $9\frac{3}{8}$  mixed number to an improper fraction.

24. Write the fraction in simplest form:  
 $-\frac{225}{375}$ .

**Perform the indicated operation(s):**

25.  $\frac{-7}{5} \square \left(-\frac{25}{4}\right)$

26.  $\frac{3}{5} \div (-18)$

27.  $2\frac{5}{7} \div 2\frac{1}{9}$

28.  $\frac{-2}{19} + \left(\frac{-1}{3}\right)$

**Solve for  $x$ :**

12.  $2x - 7 + 9x - 8 + 4x = 5x + 2$

13.  $\frac{-2}{3}x = 6$

14.  $-4x + (-3x) = -56$

15.  $-2x + 8 + x = 12x - 3x + 28$

16.  $-5(y - 3) + 4(y - 2) = 32$

17.  $-5(5x + 3) = 7 - 6x$

$$29. 10 + \frac{9}{7}$$

$$30. 9 - \frac{3}{8}$$

$$31. 9\frac{1}{7} - 3\frac{3}{14}$$

$$32. \frac{5}{7} - \left( \frac{-5}{14} \right)$$

$$33. \frac{4 - \frac{3}{5}}{5 + \frac{1}{4}}$$

$$34. \frac{5}{7} \cdot \frac{7}{15} \div \frac{1}{6}$$

**Solve for  $x$  :**

$$35. \frac{x}{8} + 3 = \frac{1}{2}$$

$$36. \frac{x}{7} = 1 - 18 \div 3$$

37. Juanita earns \$12.23 per hour at her job. She worked 16 hours last week. Calculate Juanita's pay before taxes.

38. You earn \$160 a day on a job. If you leave work early for a doctor's appointment and work  $\frac{5}{8}$  of a day, how much did you earn that day?

**Perform the indicated operation(s):**

$$39. 15.05 + (-2.23) + (-3.19)$$

$$40. -1.2365 - (-0.9823)$$

$$41. 0.4 \times (-0.002)$$

42. Round 32.458 to the nearest hundredth.

$$43. 875 \div (-2.5)$$

$$44. 52 \overline{)15.756}$$

45. Tom went shopping and bought an iPod for \$199.99 and a movie for \$15.50 and then bought a skateboard for \$45.29. What was the total amount he spent?

46. Write the decimal equivalent of  $\frac{3}{8}$ .

$$47. \text{Solve for } x: \frac{75}{123} = \frac{5}{x}$$

48. It takes Mike 24 minutes to type and spell check 14 pages. Find how many pages he can type and spell check in 3.5 hours. Round answers to the nearest tenth if necessary.

$$49. \text{Solve for } x: (-2.7x) + 4.9x = -13.2$$

50. Write 2.9% as a decimal.

51. Convert 38% to a fraction in lowest terms.

52. Change  $2\frac{3}{5}$  to a percent.

53. 144 is what percent of 300?

54. Find 4.2 % of 310.

55. Find the mean of the following test scores: 92, 83, 70, 78, 85

**Answers to Practice Final Exam:**

1. 20
2. -37
3. -62
4. 200
5. undefined
6. 0
7. 8
8. -3
9. -20
10. 51
11. -2
12.  $x = \frac{17}{10}$
13.  $x = -9$
14.  $x = 8$
15.  $x = -2$
16.  $y = -25$
17.  $x = \frac{-22}{19}$
18. 204 inches
19.  $105 \text{ ft}^3$
20. (a)  $18^\circ$  (b)  $108^\circ$
21. 54
22. -4
23.  $\frac{75}{8}$
24.  $\frac{-3}{5}$
25.  $\frac{35}{4}$
26.  $\frac{-1}{30}$
27.  $\frac{9}{7}$
28.  $\frac{-25}{57}$
29.  $\frac{79}{7} = 11\frac{2}{7}$
30.  $\frac{69}{8} = 8\frac{5}{8}$
31.  $\frac{83}{14} = 5\frac{13}{14}$
32.  $\frac{15}{14}$
33.  $\frac{68}{105}$
34. 2
35.  $x = -20$
36.  $x = -35$
37. \$195.68
38. \$100
39. 9.63
40. -0.2542
41. -0.0008
42. 32.46
43. -350
44. 0.303
45. \$260.78
46. 0.375
47.  $\frac{41}{5} = 8\frac{1}{5} = 8.2$
48. 122.5 pages
49.  $x = -6$
50. 0.029
51.  $\frac{19}{50}$
52. 260%
53. 48%
54. 13.02
55. 81.6